

Nuclear Division News



A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation

Vol. 7 No. 18/September 2, 1976

inside ...



Paducah, Kentucky's most westerly city, is said to have received its name from Paduke, legendary chief of the Chickasaw tribes. The city's colorful 150-year history is traced in a special article beginning on page four.

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R. W. Levin, Paducah, named to head ORGDP's Technical Services Division

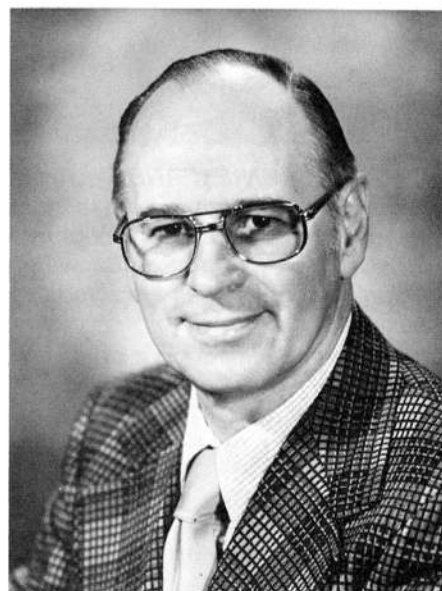
The appointment of Robert W. Levin as Director of the Technical Services Division at the Oak Ridge Gaseous Diffusion Plant has been announced by James C. White, Technical Services Manager for production plants.

Levin, who has been Laboratory Division Superintendent at the Paducah Gaseous Diffusion Plant, succeeds James C. Barton, who has been associated with the Oak Ridge plant since 1944. Barton will be retiring in the near future.

In his new position, Levin will plan, direct and manage the activities of the Laboratory Division which include the following: vendor and equipment evaluation, barrier and materials evaluation, chemical analysis, isotopic analysis, and classification and technical information services.

Honor graduate

Levin received his bachelor's degree, cum laude, from Harvard University in 1942, following which he was assigned to the SAM project in New York City. He transferred to Oak Ridge in 1944 and served in various supervisory capacities in gaseous diffusion plant operations. In 1951 he transferred to the Paducah Gaseous



Robert W. Levin



James C. Barton

Diffusion Plant to head the laboratory function. As Laboratory Division Superintendent he was responsible for both the analytical laboratory and process development functions at Paducah.

Over the years, Levin has been actively involved in the development of standards and specifications for the handling, packaging and transport of uranium hexafluoride. He is a member of the ERDA uranium hexafluoride specifications study committee.

Active in societies

In addition, he is a member of the American Chemical Society and past chairman of the Kentucky section of the American Chemical Society. He is also a member of the American Nuclear Society and the Atomic Industrial Forum.

A native of Parsons, Kan., he is married and has one daughter. The Levins have been living at 3937 Pines Rd., Paducah, but will be moving to Oak Ridge in the near future.

Barton, a native of Westminster, S.C., received his bachelor's degree in chemistry from Berea College in 1937. In addition, he has taken courses in chemical engineering and office management at the University of Tennessee.

Following graduation he was a teacher in South Carolina and became associated with the staff of the Wamemaker Chemical Company, Orangeburg, S. C., in 1942. He came to work for Union Carbide in 1944. From 1947-1951 he was head of the analytical and development hot laboratory department. He has been Laboratory Division Superintendent since 1951.

Helped plan standards

Among his many accomplishments, he was a major participant in planning a series of uranium isotopic standards for the National Bureau of Standards, and helped initiate and conduct the development of what was one of the world's first automatic mass spectrometers. Since 1948 he has been closely associated with the development of specifications for uranium compounds and the development of procedures for determining their conformance to specifications.

Among his many memberships are the American Chemical Society, American Society for Testing Materials and the Institute of Nuclear Materials Management. He is a Fellow of the American Institute of Chemists.

Barton is married and has two children. The Bartons live at 104 Decatur Rd., Oak Ridge.



'ENERGY ORIENTATION WEEK' WINNERS — Mikel S. Crook (left), of Lander, Wyo., and Randy C. Elliott (right), of Duncan, Okla., listen as ORNL Environmental Sciences Division researcher David Shriner explains the use of a special chamber developed to measure carbon dioxide uptake by plants during their exposure to sulfur dioxide. The visit to Environmental Sciences last month was part of an expense-paid "Energy Research Orientation Week" at ORNL awarded to the two high school students by ERDA for their prize-winning entries in the 27th International Science and Engineering Fair held in Denver last May. Mikel's winning project was "Using Solar Energy to Extract Fuel from Organic Compounds"; Randy earned his trip for "An Intermittent Solar-Driven Refrigerated Air Conditioner." Their science teachers accompanied them on the visit, which was coordinated by Philip S. Baker of ORNL's Information Division.

Bimonthly Colloquium set September 14

The next Oak Ridge National Laboratory Bimonthly Colloquium will be held Tuesday, September 14, at 7:30 p.m. in the American Museum of Atomic Energy, Oak Ridge. Charles F. Baes Jr., ORNL Chemistry Division, will discuss "Carbon Dioxide and Climate: the Uncontrolled Experiment."

Following Baes' presentation, ORNL Director Herman Postma will comment on "The Problem of Space and Facilities," after which he will answer questions from the audience on this and other topics.

Admission to the Colloquium is by badge.

Lindemer elected Fellow of ACS

Terrence B. Lindemer, Chemical Technology Division, Oak Ridge National Laboratory, was recently elected a Fellow of the American Ceramic Society.



T.B. Lindemer

Lindemer joined the Nuclear Division in 1966 after working with the Inland Steel Company and the Solar Aircraft Division of International Harvester Company. He received his B.S. degree in 1958 from Purdue University and his Ph.D. degree in 1966 from the University of Florida, both in metallurgical engineering.

A member of the American Ceramic Society since 1961, he has served its Nuclear Division as a member of the research and papers review committees.

Lindemer and his wife, Suzanne, have two children, Eric and Kristen. They live at 121 Windham Road, Oak Ridge.

division deaths

Drexel Lamb, an instrument technician in Instrumentation and Controls Division, Oak Ridge National Laboratory, died August 17 in Fort Sanders Hospital, Knoxville, of injuries received in a one-car accident the day before. A resident of Crest Drive, Claxton, Mr. Lamb had joined the Nuclear Division in January of this year.



Mr. Lamb

His survivors include his wife, Carole Sue Lamb; one daughter, Carla Lamb; one son, Carlton Lamb; his mother, Mrs. Ray Atkins; and two sisters, Dolly Miller and Edna Gibson.

Funeral services were held August 19 in the chapel of Kyker Funeral Home, Madisonville, followed by burial in Sunset Cemetery there.

Clarence E. "Fuzz" Harris, a supervisor in the Maintenance Division at Y-12 died August 19 at his Concord home.

A native of Athens, Mr. Harris came to Y-12 in August, 1943. He was a representative on the Smoky Mountain Council of Boy Scouts and was active in his support of the Bachman Memorial home, Cleveland, a home for orphans.



Mr. Harris

Survivors include his wife, Elizabeth Y. Harris, also employed at Y-12; two sons, Robert and Thomas; and a daughter, Ruth Marcum. Six grandchildren also survive.

Funeral services were held at the Concord Presbyterian Church. Burial was in the Knox Memorial Park.

The family has asked that any memorials be in the form of gifts to the Bachman Memorial Home, Cleveland.

Y-12 Credit Union breaks ground for office complex



CREDIT UNION EXPANDS—The Y-12 Employees' Federal Credit Union has begun construction on an addition to its present facilities on Lafayette Avenue, Oak Ridge. The five-story modern structure will keep pace with the increased growth and add a wide variety of financial services to the credit union. The building is expected to be ready for occupancy by September of next year.



OFFICIALS BREAK GROUND—Wide grins and a golden spade break grounds for Y-12's credit union building expansion. The board of directors of the credit union has extended options to other credit unions in the area to share the facility to reduce operating costs and improve services to credit union members in the area.

Officials of the Nuclear Division, Rust Engineering and National Credit Union Administration were present recently for the groundbreaking for the new Y-12 Employees Federal Credit Union home office complex.

The Y-12 credit organization has exceeded a 40 percent growth in the past year, forcing a move to larger quarters. To keep pace with increased growth and the addition of a wider variety of family financial services the Credit Union's board of directors has commissioned a contract to build a five story addition to the present facility.

The Credit Union will soon open two remote drive-up teller windows at the edge of the recently renovated parking area to handle a full line of financial services.

The new building design is oriented to the Credit Union's service functions and offers ample opportunity to expand over the next 20 years. President Herb R. Gwinn has announced that current plans are to extend options to other area credit unions to share the facility. Some of the space in the new facility has already been rented on short-term leases.

The building is expected to be ready for occupancy in September, 1977.

next issue ...

The next issue will be dated September 16. The deadline is September 8.

Gets Nuclear Medicine post

Betty F. Maskewitz, director of the Radiation Shielding Information Center in Oak Ridge National Laboratory's Neutron Physics Division, has been elected secretary-treasurer of the Computer Council of the Society of Nuclear Medicine. A Nuclear Division employee since 1952, she is also director of ORNL's Biomedical and Computer Technology Information Center.

Named to ORGDP positions



W. P. Gore



A. M. Watson

William P. Gore and Arnold M. Watson have been promoted at the Oak Ridge Gaseous Diffusion Plant.

Gore has been named a development associate in the Gaseous Diffusion Development Division. A native of Oak Ridge, he joined Union Carbide

in 1965. He graduated from the University of Tennessee last month with a B.S. degree in mechanical engineering.

Mrs. Gore is the former Jeane Weems; the couple lives at 114 Delmar Circle, Oak Ridge.

Watson has been promoted to a maintenance supervisor in the Fabrication and Maintenance Division. He was born in Sevier County, and has attended the University of Tennessee and is a graduate of Central Industrial Electronics School.

He lives at Waller Ferry Road, Lenoir City, with his wife, the former Jean Watson. They have two children, Terri and Kenneth.

question box

If you have questions on company policy, write the Editor, Nuclear Division News (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

Swine flu vaccine

QUESTION: Are the Nuclear Division employees going to be able to get their swine flu vaccines through the plant dispensaries?

ANSWER: Yes, it is expected that the swine flu vaccine will be available at our health centers. Specific schedules for providing the vaccination will be announced at each installation when the vaccine is available, which is still a month or so away. For more details concerning this matter, see Dr. Lincoln's column in the next issue of **Nuclear Division News**.

Coffee making duties?

QUESTION: Is there any job classification that carries with its description of duties a requirement of getting or making coffee? If so, would it be possible for you to supply that job title and description in detail in the **Nuclear Division News**?

ANSWER: Job descriptions are written in general terms so as to apply to all jobs within a given classification. They do not include minor duties of an incidental nature, such as serving or making coffee. Many jobs encompass duties of this kind which are not included in the general description but which have always been associated with the job.

Job bidding

QUESTION: The secretary to the Employee Relations Manager at the Y-12 Plant was recently promoted. Why was the position not put up for bid?

ANSWER: The secretary you refer to was promoted to an exempt-salaried job. Only nonexempt-salaried jobs are covered at the present time by the Job Opportunity System. The vacancy created by her move was filled by a lateral transfer of another secretary, and the subsequent opening was posted for bid and filled through the Job Opportunity System.

Job salary range

QUESTION: My supervisor will not tell me the salary range for my job. I work at Y-12 and understand that I should be given this information. Am I correct?

ANSWER: Your supervisor should provide you with your salary range and your position in the salary range if you request that information. Contact your supervisor again. If you continue to have difficulty, get in touch with your department head or the Salary Administration Office at Y-12 (extension 3-7359).

Personal time off

QUESTION: Last year Employee A, monthly salaried, took personal leave 25 times for medical and dental appointments. Although he was off a total of 56 hours, only four one-half days showed on his time card, since other absences were for less than four hours and were not recorded.

Employees B, weekly salaried, took personal leave for the same reasons 20 times for a total of 40 hours, all of which appeared on his timecards.

On Report No. 2988, Absence Control Information, the past six years of absent time is printed for easy reference. For the majority of monthly employees, the record looks good. But for the weekly employee who may have taken no more total time, the record looks bad.

Has any thought been given to changing this unfair practice?

ANSWER: It is correct that personal absences of less than four hours are recorded differently for nonexempt salaried (weekly) and exempt salaried (monthly) employees on the Absence Control Information Report No. 2988. However, each supervisor is responsible for being aware of and controlling the amount of personal leave taken by employees in his/her organization whether the employees are weekly or monthly. In both the examples you cite, personal absences seem to be excessive unless there were extenuating circumstances.

It should be pointed out that while absences of less than four hours are not reported for exempt employees, neither is time worked in excess of eight hours in a day reported for exempt employees. Whenever nonexempt employees work beyond eight hours in a day, such time is recorded and time and one-half pay is given.

Savings Plan-Personal Investment Account

Recent unit values:

	Fixed Income Fund	UCC Stock	Equity Investment Fund
August 73	10.0000	34.7688	10.0000
December 73	10.2444	31.8170	9.3602
December 74	11.0438	40.3009	6.4354
December 75	11.9880	58.7886	7.8231
May 76	12.4228	71.5969	8.3487
June 76	12.5112	68.8163	8.7524
July 76	12.6001	65.5359	8.6664

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 8.85% for 1976. Union Carbide stock values are the average cost of stock purchases during the month plus brokerage charges. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. Dividing the total value by the number of units in the fund establishes the month's unit values—and the price at which new units are added that month.

Industrial hygienists elect Bolton



Newell E. Bolton

Newell E. Bolton, head of the Industrial Hygiene Department in the Health Division, Oak Ridge National

Laboratory, has been elected a director of the American Industrial Hygiene Association. He will serve a three-year term on the board of AIHA, a worldwide professional organization for specialists in occupational health science.

Bolton has been with Union Carbide since 1952. Before coming to Oak Ridge in 1961, he was assigned to the Technical Center at South Charleston, W. Va.

A native of Hazard, Ky., Bolton holds a bachelor's degree in chemistry from the University of Georgia. He has been a member of AIHA since 1956 and has served on several of its committees and as president of the Tennessee Valley Section. He is a past president of the American Academy of Industrial Hygiene and a director of the American Board of Industrial Hygiene.

Reactor Division gets name change

The name of ORNL's Reactor Division has been changed to the Engineering Technology Division, effective immediately.

Associate Laboratory Director Donald B. Trauger said the name change reflects the diversification of the mission of the division from more than support of nuclear reactor programs to support of non-nuclear programs as well.

Trauger said, "Although the division continues to do extensive and very important work in reactor safety for the Nuclear Regulatory Commission, the work is directed toward an understanding of the engineering systems. Reactor programs for ERDA have similar characteristics and do not involve overall reactor design or analysis."

"Programs in the division relating to better utilization of coal and energy conservation are growing. It appears that future programs for the division will continue to broaden into new areas of engineering; thus, the name Engineering Technology Division seems to fit more appropriately."

wanted



ORGDP

RIDE from West Haven section, Knoxville, 3104 Hazelwood Road, to Portal 4, straight day — 8 to 4:30; L. C. Adcox, plant phone 3-3072, home phone Knoxville 523-3961.

RIDE from East Village, Oak Ridge, to Portal 2, straight day. A. M. Billings, plant phone 3-9651, home phone Oak Ridge 482-5639.

ORNL

RIDERS for commuter van pool from Beaver Creek-Halls area, Knoxville, to any portal, 8-4:30 shift. Jim Womak, plant phone 3-6678, home phone 947-9707.

RIDE or WILL JOIN CAR POOL from West Knoxville to East Portal, 8-4:30 shift. Plant phone 3-6421, home phone 584-8355.

Y-12 PLANT

RIDE from Garden Apartment area,



Rasho H. Winget Jr.

Hazard Control Board accredits safety officer Winget

Rasho H. Winget Jr., radiation and safety control officer for the Plant and Equipment Division, Oak Ridge National Laboratory, has been accredited as a Certified Hazard Control Manager, Master Level, by the International Hazard Control Management Certification Board in Washington, D.C.

Winget, a licensed professional engineer, holds a B.S. in chemical engineering from Eastern Illinois University and an M.S. in industrial management from the University of Tennessee. He joined the Nuclear Division in 1946, working first at ORGDP for four years before coming to ORNL in the Chemical Technology Division. He has been with Plant and Equipment Division since 1963.

Winget and his wife, Myona, a teacher at Knoxville's Shannondale School, live at 5330 LaVesta Road, Knoxville. They have two sons, Jay, a former Y-12 Plant employee who is now professor of engineering at Walters State Community College in Morristown; and Michael, a teacher at Halls High School, Knoxville.

West Vanderbilt Drive, Oak Ridge, to Biology Portal, straight day. Linda Davis, call extension 3-7726 and leave message.

Paducah's 150-year history

Great rivers gave birth to Kentucky's most westerly city

The rivers gave birth to Paducah. And, more than once, the mighty waters have almost claimed the life of this vital, most-westerly of Kentucky's cities.

Paducah was founded in 1827, from a \$5 purchase made by General William Clark, from the estate of his late older brother, General George Rogers Clark. George first came to the

area in 1778 on his expedition into the mid-west in conquering the Illinois Indians. William scouted the area in 1804 at the on-set of his trek across the country with Merriwether Lewis, seeking the "northwest passage."

A small village, named Pekin, lay on the site, and William Clark renamed the hamlet Paducah, in honor of the legendary Chickasaw Chief, Paduke.

The river front was platted as a market area, and the town site immediately began to take shape. A Market House, built of logs, went up in 1836, where persons were allowed to buy food only for their own families. During the Civil War, the second Market House (built in 1850) was used as a hospital when Federal troops held McCracken County.

Miles of shoreline

The city is located at the joining of the Ohio and Tennessee Rivers and, for the past 150 years, has plied the waters with its commerce and industry. Today, shipbuilders, the nation's only diesel railroad engine repair shop, and other thriving businesses keep the Western Kentuckians busy. Nearby, Kentucky Lake and Lake Barkley, with 3,300 miles of shoreline and 220,000 acres of water, provide residents with two of the largest inland lakes in America, where water sports, fishing and boating offer a variety of pleasures.

It was early in the Civil War that General Ulysses S. Grant announced that the Union Army was taking possession of the town to "defend you against Confederate attack." The city remained occupied for the duration of the war. The Commonwealth of Kentucky, providing two native sons to lead the warring nations -- Jefferson Davis and Abraham Lincoln -- itself did not secede from the Union.

Another famous son, General Lloyd Tilghman, CSA, fell at the battle of Vicksburg in 1863. Paducah's high school bears his name.

Perhaps Paducah's most famous sons are Alben W. Barkley and Irvin S. Cobb.

Well-known 'Veep'

Barkley, who served in the House of Representatives, the U.S. Senate and as vice president to Harry S. Truman, was re-elected to the Senate after stepping down as vice president. The "Veep" died at Washington and Lee University, moments after declaring, "I would rather be a servant in the house of the Lord than to sit in the seats of the mighty."

Cobb, one of the nation's great humorists, provided the famed Judge Priest stories to the literary scene. The lecturer, writer, actor and wit is buried in Paducah, his grave marked only by a giant boulder and a grove of dogwood trees. "He wanted to come home," his widow said, "no matter where he traveled, he always thought of Paducah as home."

The last great flood inundated most of downtown Paducah in 1937, but residents have constructed an \$8 million floodwall that should eliminate the threat of the river in the future. (Clara Barton visited in the area in one of the floods in 1884, one of the first major relief operations undertaken by the American Red Cross.)

Model city hall

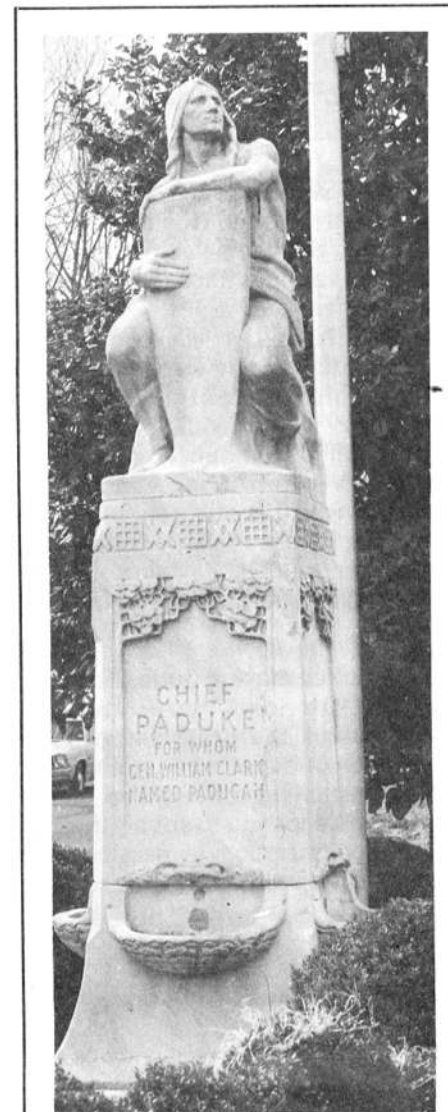
West of Paducah lies the Paducah Gaseous Diffusion Plant, one of the Energy Research and Development Administration's three gaseous diffusion plants, and the Tennessee Valley Authority's Shawnee steam electric plant. The ERDA plant cost an estimated \$800 million and the Shawnee plant another \$216 million.

The city of Paducah boasts one of the finest city halls in the nation . . . designed by Edward Durell Stone.

(Please see next page)



BELOVED 'VEEP'—One of the city's most famous sons was Alben W. Barkley, U.S. Representative, U.S. Senator, Vice President and U.S. Senator again. The Veep's Paducah home, Angles, was built in 1859 and was for 19 years the Barkley home.



LEGENDARY CHIEF—Chief Paduke, legendary chief of the Chickasaw tribes, gave Paducah its name. Many historians question whether such a man ever existed, but he lived in the imagination of Gen. William Clark, at least, to provide the city with a name.



THE MARKET HOUSE—Built for the third time in 1905, Paducah's historic Market House now houses an art guild, museum and a theatre. It was here early Paducans bought and sold their wares from Western Kentucky's rich, alluvial soil.



LANDMARK DOOMED—The 115-year-old Smith mansion, near Paducah, is typical of homes built just prior to the Civil War. This giant will more than likely be demolished to make way for I-24 interchange (near Lourdes Hospital). Its paint peeling away from age, and windows broken by vandals do not detract from its aristocracy. The building, three stories high, boasts ceilings 14 feet high, stairways 10 feet wide, and a kitchen 40 feet long. The third floor is a dome encircled with windows. It houses a piano too large to move through the doors that was hoisted into position through an upstairs window.



CITY'S FOUNDER—William Clark, explorer, soldier and administrator is credited with founding Paducah in 1827. With \$5 he purchased the land which became downtown from his late brother's estate. Clark earlier accompanied Merriwether Lewis on their famous exploration of the nation's west, and it is believed he saw the Paducah area then.

(Continued from page 4)

The building occupies a city block and is open to the public. Stone later designed the John F. Kennedy Center for the Performing Arts in Washington.

The Market House now is occupied by a museum, an art guild and a theater group, performing where farmers once sold their vegetables and flowers.

On his first day in Paducah, Irvin S. Cobb, wrote, "Cal Evitts, the efficient and popular Market Master, says there were more rabbits brought to local market this week than any week

this winter. Molly Cottontails sold this morning for 10 cents dressed or 5 cents undressed."

Chemical complex

Paducah's past is as colorful as its vibrant present. In the past 12 years, a very important chemical and industrial complex has developed near Calvert City on the banks of the Tennessee River.

Paducah is also known for its many residential moods. The streets are lined with homes from modest bungalows to colonial mansions. A sad demise will occur shortly near the I-24 interchange, as the James P. Smith mansion will more than likely be demolished. The 115-year-old mansion was once one of the architectural aristocrats of Kentucky, but the years have taken their toll as the stately pillars are no longer white, and vandals have also destroyed many of the windows. The once beautiful garden and lawn with its circular drive is now the parking place for huge bulldozers and earthmovers, surplanting tradition with progress.

Two outstanding hospitals serve Paducah's health needs, Western Baptist and Lourdes, both in the process of expanding to serve more patients.

Natural water hub

Paducah lies at the natural hub of the inland waterways system. Based in Paducah are two shipyards, two midstream fuel and supply companies and six barge lines.

The Paducah Gaseous Diffusion Plant, with its 2,200 plus employees, is only one of the industries in this Kentucky city's complex.

The scenic beauty and an illustrious past make Paducah a mecca for history buffs, tourists, sportsmen and businessmen alike. And the rivers that once were a dire threat to Paducah's life still give it its vitality.

Light up for safety

As summer goes into its last month, daylight is coming later and later. So use your headlights on dark mornings — so that you can see, and so that others can see you!



THE 1937 FLOOD—The last great flood threatened Paducah's life in 1937 with water covering the ground floors of most commercial establishments on Broadway. Flood control has shielded sights like this from new generations in the city. (Photo courtesy of Paducah Sun-Democrat.)



NEVER AGAIN—Near the marker where General Ulysses S. Grant proclaimed Paducah a possession of the Union Army is a giant "seawall" to protect the city from the Tennessee River.



NOTED WIT—Perhaps one of America's best known humorists was Irvin S. Cobb, who called Paducah home. His character, Judge Priest, modeled after a real Kentucky judge, stands almost alone in letters as a portrait of a smalltown jurist, spiced with satire and Cobb's own peculiar brand of wit.

Secretarial seminar set September 18

The Oak Ridge Chapter of the National Secretaries Association will sponsor a seminar, "Maximizing Your Professional and Personal Potentials," for secretaries and other office personnel Saturday, September 18. The program will begin at 8 a.m. at the Oak Ridge Royal Scottish Inn. A \$12 registration fee includes buffet breakfast.

Three speakers will conduct the seminar: Betty L. Siegel, dean of the School of Education and Psychology at Western Carolina University; Minnie Jane Bowman, a faculty member at the University of Tennessee; and Sharon Lord, associate professor in the Department of Educational Psychology and Guidance at UT.

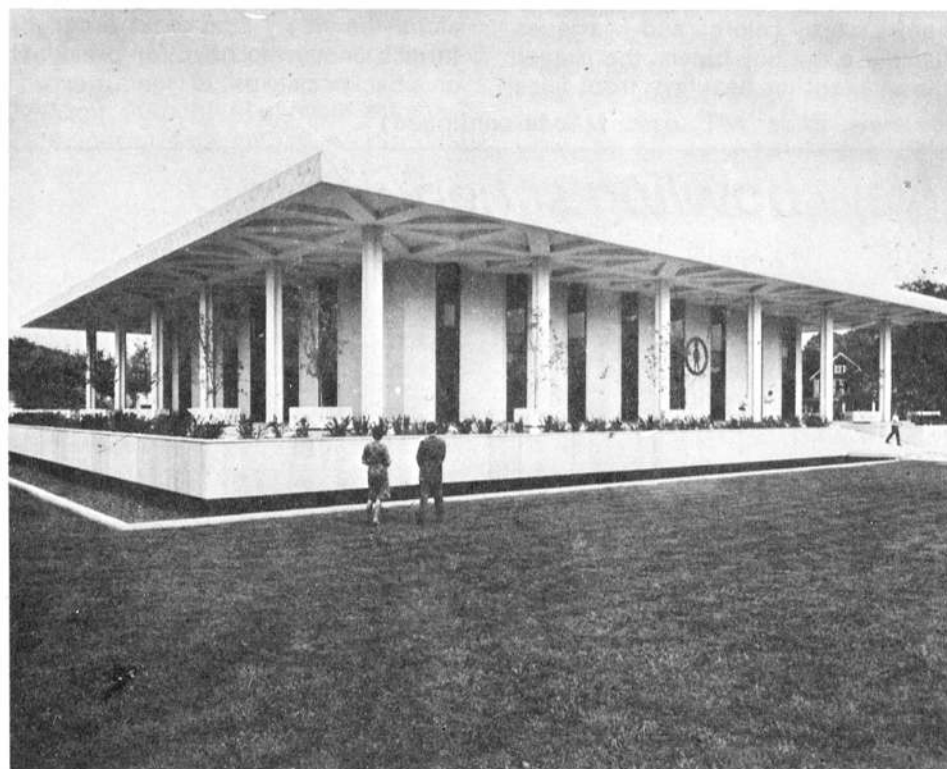
A highlight of the seminar will be the presentation of Certified Professional Secretary certificates to 16 Oak Ridge area secretaries.

Registration forms may be obtained from Donna Slagle, ORNL, extension 3-5458; Sheila Thornton, ORGDP, 3-3321; or Jo Hitch, Y-12, 3-7288. Betty Pope is in charge of registration, and Betty Burns is the seminar coordinator.

ORNL Credit Union plans estate seminar

The ORNL Credit Union will sponsor a one-day estate planning seminar for its members on Thursday, Oct. 21, at the Oak Ridge Civic Center. The \$5 registration fee will include lunch, coffee breaks and estate planning materials.

Staff members at the University of Tennessee specializing in estate planning and procedures will conduct the seminar. Participation will be limited to the first 150 registrants. Watch for the registration blank in the next ORNL Credit Union Newsletter, to be mailed in mid-September.



MODEL CITY HALL—Paducah boasts one of the country's finest city halls, designed by Edward Durell Stone, occupying a full city block. Here the functions of the Commission-City Manager form of government are carried out. Visitors are welcome in the architectural wonder at 4th and Washington.

A DIFFERENT DRUMMER

Why do I hike? Let me count the ways, says Young

Ruth Young, a secretary in the Engineering Division, has many broad interests, listing to the beat of a "different drummer." She enjoys needlepoint and all kinds of stitchery and spearheads local folk dancing efforts. One of her main interests is outdoor hiking and she has been interested in the Smoky Mountain Hiking Club for a long time, joining many other Nuclear Division employees in that group.

She is a native of Scott County and joined Union Carbide in 1959 — first working in the Y-12 Plant, and transferring to the Oak Ridge Gaseous Diffusion Plant three years ago.

Her in-depth treatise on hiking was too long for one issue, and too good to edit — so part of it is in this issue and the second half will follow in another edition.

PART I

by Ruth K. Young

Motorists driving leisurely through the Great Smoky Mountains National Park are sometimes startled by the sight of a group of grimy, bedraggled people wearing packs on their backs and emerging from a rhododendron thicket or dense forest. Those disheveled people will very possibly be my fellow members of the Smoky Mountains Hiking Club, still wearing looks of triumph at having battled their way through a laurel slick or around a rhododendron-fringed waterfall as they explored the deep backwoods of these mountains they love so much.

To penetrate those backwoods, we hikers often rise before dawn in order to avoid heavy motor traffic and to enjoy our uphill climb in the cool part of a summer day. Many of our favorite hikes are off-trail. For a cross-country ramble, we leave a graded trail at an appropriate point to climb through open forest, occasionally working our way through brushy areas and sometimes pulling ourselves up by sturdy rhododendron limbs. Often we climb beside a mountain stream where our thirst can be readily quenched by the clear, cold water. And how good it feels to splash cold water on perspiring faces!

"Going downhill can require as much effort as going uphill in other types of terrain."

Quite suddenly, there we are on top at last. If the day is clear, we will be able to see layers of ridges and peaks stretching to the horizons — but the Smokies often earn their name by being shrouded in mists which obscure all but the closest ridges. No matter. We have reached our destination and can relax while we eat lunch and perhaps take a nap, weather permitting!

Then it is all downhill after we reach our objective? Well, **sometimes**, but in the mountains it is difficult to find many places where it is "all downhill!" So we are likely to have a few uphill on the homeward way, though probably not many and not long. And going downhill cross-country can require as much effort as going uphill in other types of terrain. The ground often seems to slide out from under us, and again we find ourselves welcoming those rhododendron handholds.

There are many kinds of hikes. Some can be taken on a broad, gradually ascending trail from start to finish. Some are partly on and partly off trails. Some trails are in reality animal paths. Some trails are manways — those unmaintained footpaths made long ago and now blocked here and there by blowdowns.

Then there is the overnight trip. Backpacking is a wholly different experience. With extra food and sleeping equipment one can go farther and stay longer. Of course, overnight backpacks weigh more and create an extra challenge for us. Climbing a steep slope with a 25- or 30-pound overnight pack is not quite the same as ascending the same slope with the 5-pound day pack. Does the heavier pack mean that the hiking club sticks to trails? Not at all. We occasionally prove our mettle by going through rhododendron, greenbriers, over blowdowns, etc., just as we would with smaller packs!

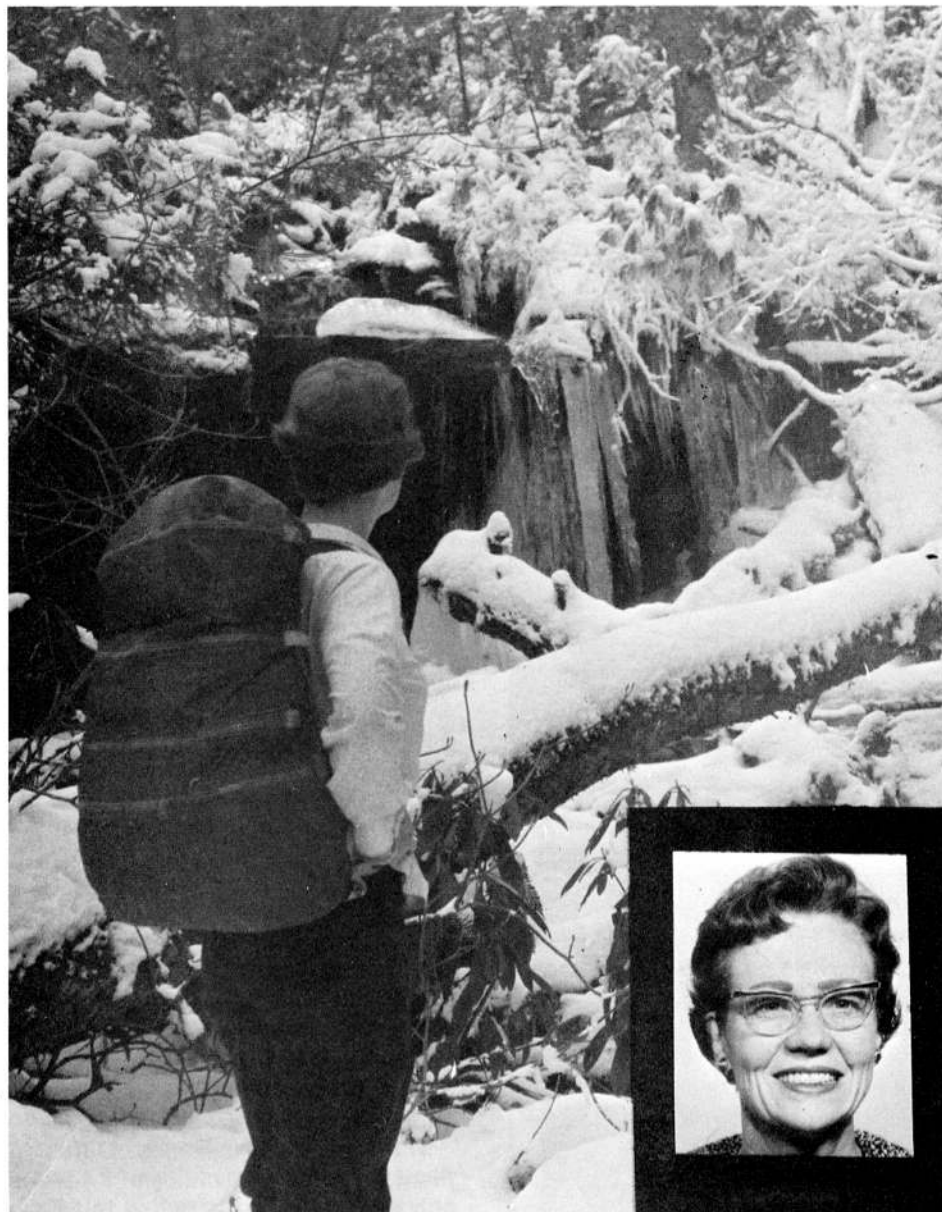
Late in the day, at camp on a high bald or in the deep woods, we bring out our tiny back-packing stoves and cook a simple meal that completely satisfies. And when we crawl into sleeping bags at bedtime, we may hear a nearby creek merrily plopping along over the rocks — a beautiful lullaby. Light sleepers hear other nighttime sounds — insects, owls,

"Every season offers a different beauty and a different hiking experience."

prowling bears (rarely). But in the morning, all hear the birds noisily chirping and calling everyone to the day's business. After camp breakfast, as elaborate or as simple as one desires, tents or tarps are struck,

Paducah's tournament

A total of 22 mixed foursomes recently attacked the near-vertical Rolling Hills Country Club golf course and came away with remarkable success. Chris Mason's team posted an exceptional four under par, as JoAnn Longton, Bob Siegfried and Norma Smith all contributed to the success. A close second race saw Bubba Clymer and Charles Turok teams tie with a minus three under par. Clymer's team won the tie-breaker by birding the 18th hole.



WINTER NO DETERRENT—Winter hikes are just as good as summer ones, according to Ruth Young. Here she "back-packs" into the mountains on a frozen, overcast day to see the wonders that winter has wrought in the age-old Smokies. "There are plenty of good hiking trails in the Oak Ridge area," she states. "You don't have to seek out exotic places like the above to enjoy a good hiking trail."

packed, campsites policed to be sure no litter is left, and off we go in the cool morning, uphill again in all probability!

The Smokies attract year-round hikers because every season offers a different beauty and a different hiking experience. In spring, the wildflowers burst forth in all their glory, with so many sizes, colors and varieties. There are the tiny bluets, the fringed phacelia, spring beauties, trout lilies,

and trillium and violets of many varieties and colors.

The flowers change as the season progresses into summer or autumn, but always there seem to be flowers of some kind somewhere. And of course, summer brings the berries. How delicious the blackberries and blueberries are as we pluck them along the way — and what a delight to pick enough to have for breakfast on a backpack trip!

(To be continued)

New bowling schedules told

The bowling season opens in most of the three Oak Ridge Plant leagues next week, and there are openings in almost every league for individual bowlers and/or teams.

Here's the schedule. Just choose the night you want to play ... and the

leagues are interchangeable as far as your plant location is concerned. In other words, ORGDP employees may be accepted in Y-12 leagues or ORNL leagues, and spouses and employees of ORAU are acceptable also.

Times	Leagues	Lanes
Monday 5:45 p.m.	ORNL A League	Tri-County
	Y-12 C League	Tri-County
Tuesday, 5:45 p.m.	X-10 Ladies League	Ark
	K-25 Ladies League	Ark
8 p.m.	K-25 Tuesday	Tri-County
	D Shift Mixed League	Tri-County
Wednesday 5:45 p.m.	ORNL C League	Tri-County
	Y-12 Mixed League	Tri-County
6:00 p.m.	K-25 Wednesday League	Tri-County
Thursday 5:45 p.m.	Y-12 Classic League	Tri-County
Friday 5:45 p.m.	Family Mixed League	Ark



When is a hysterectomy unnecessary?

by T. A. Lincoln, M.D.

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 20, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)

The rising level of criticism of American surgeons because of "unnecessary" surgery has stimulated several recent publications on hysterectomies. This operation for the removal of the uterus is the most commonly performed major surgical procedure in the U.S. Thirty-five to fifty percent of the organs removed, however, have no significant pathology when they are examined microscopically by the hospital pathologist.

As will be seen below, concluding that most of these operations are unnecessary is a premature judgment. Nevertheless, many are performed only for the convenience of the patient.

Reasons for removal vary

About 30 percent of uteri are removed because of fibroids (fibrous tumors), and 15 percent because of cancer. Another 35 percent are removed because of a "fallen womb," called a prolapse. This is due to the relaxation of pelvic support caused by earlier stretching or tearing during childbirth.

In the latter group, the uterus is removed because of chronic discomfort and the frequent associated interference with bladder control. The uterus itself may be normal, but its lack of support in the abdomen causes enough distress that its removal is necessary either alone or as a part of a plastic procedure to improve support of the bladder.

About 20 percent of hysterectomies are performed as a sterilization procedure in women who have had all the children they want and, therefore, have no need for the uterus. They look upon it as a source of continuing inconvenience in the form of menstrual periods and a site for possible future cancer.

More likely in older women

Less than two percent of all hysterectomies are performed on women under 25 years of age. Approximately 19 percent are done on women between 26 and 35; 38 percent on women from 36 to 43; and the rest on older women, most of whom have passed the menopause.

A normal uterus may be removed when the ovaries or tubes are diseased and have to be removed. As long as the abdomen is open, the removal of the uterus in addition to these other structures does not add appreciably to the risk. Sometimes a normal uterus will be removed because of a cancer in an adjacent

structure, or, because of uterine bleeding which cannot or should not be controlled by hormone therapy.

The risk involved in a hysterectomy is small, but certainly not insignificant. Fatalities occur in about 0.2 percent of vaginal hysterectomies and 0.1 percent of abdominal hysterectomies. Some of these are anesthetic deaths and some are due to unforeseen complications which occur either during surgery or in the early post-operative period. Some deaths may be due to cardiovascular disasters which could not have been anticipated by any reasonable preoperative diagnostic study.

Costs and savings

In a review of the pros and cons of elective (meaning optional) hysterectomy which appeared in the July 29, 1976, issue of the **New England Journal of Medicine**, Dr. Philip Cole of the Department of Epidemiology, Harvard School of Public Health, attempted to perform a cost-benefit analysis of elective hysterectomies. He estimated the lifetime savings and costs for one million women who have had hysterectomies.

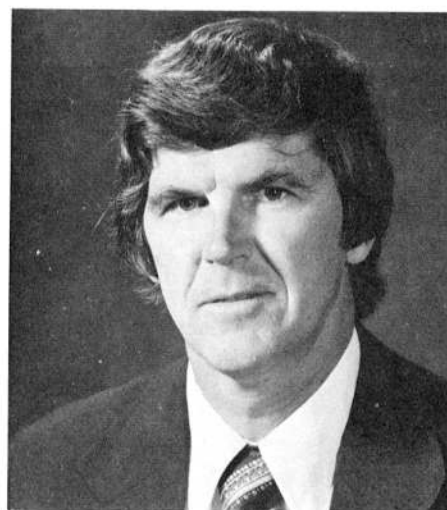
Savings resulted from the avoidance of future medical care for cancer and other gynecological procedures by the small percentage who might have had such problems. Other costs saved included the need for Pap smears, contraceptive and menstrual preparations and, in a few cases, the avoidance of giving birth to severely retarded infants, which might require lifetime care. The costs were the surgical and hospital fees and the wages lost.

The savings were estimated at about \$1.5 billion, but the costs were almost \$3 billion. In terms of lives saved because of elimination of future cancers, the cost was \$12,800 per year of life saved. If the procedure was not done until age 45, the cost came down to about \$9,800 per year of life saved.

Emotional considerations

In the same article, Dr. Malkah T. Norman, a psychiatrist, called attention to the emotional impact of the loss of the symbol of reproductive capacity. Several studies have shown that depression is more common after hysterectomy than after other surgical procedures, and is as much as five times more common than in unoperated women of the same age. Unfortunately, there has been little effort to measure the positive psychological benefits of losing the uterus. It certainly provides relief

Named regulatory affairs manager



Arvin S. Quist

Arvin S. Quist has been named manager of Regulatory Affairs for the Office of Waste Isolation. In his new assignment he will be responsible for managing and coordinating OWI activities leading to the licensing of all

federal repositories, according to Clayton D. Zerby, OWI Director.

A native of Blair, Neb., Quist holds a B.S. and an M.S. degree from Dana College; a Ph.D. from the University of Nebraska; and a Doctor of Jurisprudence from the University of Tennessee. Before joining Union Carbide in 1961, he taught chemistry at the University of Nebraska. He has been associated with the Reactor Chemistry Division, Environmental Sciences and the Energy Division at the Oak Ridge National Laboratory.

Married to the former Doris Anne Growcock, Quist lives at 104 Neville Lane, Oak Ridge. The couple has three sons.

He is a member of the American Chemical Society, the American Association for the Advancement of Science, and the American and Tennessee Bar Associations. He is a member of the Environmental Quality Advisory Board for the City of Oak Ridge.

division deaths

Johnny J. Everhart, a pipefitter in West Research Services, Plant and Equipment Division at Oak Ridge National Laboratory, died August 14 in Blount Memorial Hospital, Maryville.

A Nuclear Division employee since 1974, he lived at 1314 Forrest Avenue in Maryville.

Survivors include his wife, Dorothy Parks Everhart; two daughters, Linda Russell and Susan Everhart; his mother, Carrie Everhart; two brothers, George and Frank Everhart; and five sisters, Mary Sue Hodge, Betty Lou Click, Altois Tefeteler, Blanche Everhart and Shirley Bramlett.

Funeral services were held August 17 at the Miller Funeral Home in Maryville. Burial was in Grandville Cemetery.

Willard Martin, a millwright in West Research Services, Plant and Equipment Division at Oak Ridge National Laboratory, died August 13 in Oak Ridge Hospital. He had been with Union Carbide since 1952. The Martin home is at Route 3, Tacora Hills, Clinton.

He is survived by his wife, Hilda Fae Schrader Martin, who works in ORNL's Biology

from many worries and some unpleasant or inconvenient symptoms.

Unnecessary surgery is a significant problem in the U.S. The frequency of hysterectomy here is almost double what it is in England. Nevertheless, one has to consider that the surgery can have definite benefits aside from life-saving ones. If a woman is fully cognizant of the risks and still desires the procedure, is it always necessary to refuse to do it? The question is unanswered, but consideration of all aspects of the problem is necessary before any rigid rules are established.

Division; a son, Jerry Lynn Martin, also a millwright in West Research Services; a daughter, Vicki Chamblee, a secretary in West Research Services; his mother, Mrs. John Honey; a sister, Reba Harmon; and three brothers, Lawrence, Kenneth and Trulan Martin.

Funeral services were held August 16 in the Holley Gamble Funeral Home Chapel in Clinton, followed by interment in the Tennessee Valley Mausoleum.

Joseph E. Brandon, Plant and Equipment Division at Oak Ridge National Laboratory, died August 15 in the University of Tennessee Memorial Hospital. A foreman in Field Trans-

portation and Support Services, he was a 31-year Union Carbide employee. He lived at Route 7, Rockwood.

Mr. Brandon is survived by his wife, Helen Lands Brandon; one son, Eddie Brandon; his parents, Mr. and Mrs. Ernest Brandon; two brothers, James and Gene Brandon; and five grandchildren.

Services were held August 18 at Post Oak Christian Church, Rockwood, followed by burial in Oak Grove Cemetery.

September 6 holiday

Monday, September 6, is an official holiday for Nuclear Division employees. The entire nation pauses to honor its laboring forces — both men and women — which have given us our high standard of living.

No employee will be required to be at work unless his/her presence is required by continuous operations or by plant security.

Drawings featured in new book



"Passing America," an exhibit of 22 pen-and-ink drawings developed by Oak Ridge National Laboratory graphic designer Bill Clark as part of ORNL's bicentennial celebration, has been incorporated (along with 22 new drawings) into a limited edition book. Clark will be at the Kerr Building at the TVA & I Fair (beginning at Knoxville's Chilhowee Park September 10) each evening with a display of the drawings.

Clark, employed in the graphic arts department of ORNL's Information Division, is a graduate of the Ringling School of Arts, Sarasota, Fla.; and Famous Artists School, Westport, Conn. He has had several one- and two-person exhibits in Knoxville, Oak Ridge, North Carolina and New York.

In the accompanying photo, Clark (right) discusses some of his drawings with Cooper Alex Stewart in Stewart's workshop, where Clark spent a day recently making sketches of the craftsman at work. (A cooper is a person whose work is making or repairing barrels or casks.) The Stewart drawings and others by Clark were on display earlier this year in the office of ORNL Director Herman Postma.

retirements



Ely

Greever

Henry



Overton

Kramer

Jackson

Three Oak Ridge National Laboratory employees retired at the end of August.

Herbert H. Ely, a sheetmetal worker in Plant and Equipment Division, retired after 27 years of company service. His home is at Route 4, Clinton.

William O. Greever, chief stores clerk in Finance and Materials Division, joined Union Carbide in 1947. He lives at 313 West Vanderbilt Drive, Oak Ridge.

Joe B. Henry has retired from his position as maintenance supervisor in Plant and Equipment Division. A 25-year employee, he lives at 132 Maryville Circle, Oak Ridge.

Paul Overton, Y-12's Mechanical Inspection, retired at the end of August, ending more than 26 years company service. He lives on Lee Road, Route 4, Clinton.

William A. Kramer, Y-12's Alpha Five East Shop, elected early retirement at the end of August, with more than 25 years company service. He lives at Route 1, Heiskell.

Harrison O. Jackson, Oak Ridge Gaseous Diffusion Plant's Fabrication and Maintenance Division, will retire at the end of September, ending more than 30 years service with Union Carbide. He lives at 2134 Natchez Street, Knoxville.

anniversaries

ORNL 35 YEARS



S. B. Lupica

Sebastian B. Lupica, a chemist in the Radiation and Safety Surveys Department, Health Physics Division, joined Union Carbide September 15, 1941, in the Mining and Metals Division in Niagara Falls, N.Y. He came to the Nuclear Division in 1962, working first in Analytical Chemistry Division before transferring to Health Physics in 1970.

Lupica, who received his A.B. in chemistry from Princeton University (class of 1936), is a member of the American Chemical Society and Sigma Xi. The author of several technical papers, he also has been the developer of a number of Nuclear Division patents.

He and his wife, Dolores, live at 104 West Irving Lane, Oak Ridge. They have two daughters, Catherine, a University of Tennessee graduate; and Francesca, a graduate of UT and an M.S. graduate of the University of Virginia.

30 YEARS

LeRoy White, Health Division; Richard P. Jernigan Jr., Thermonuclear Division; Helen W.

Keener, Engineering; Harold E. Goeller, Chemical Technology Division; William M. Good, Health Physics Division; and Samuel S. Croft and James Capshaw, Finance and Materials Division.

25 YEARS

Charles F. Baes Jr., Paul A. Haas and Bill C. Williams.

20 YEARS

Charles F. Vaughn Jr., Charles S. Evans, Oreson M. Thomas, Robert P. Rosenbaum, Audrey N. Best, Roscoe H. Jones, Howard I. Adler, Evelyn S. Babb, Jack S. Watson, David O. Hobson, Milford Payne and Alfred L. Massey.

Y-12 PLANT

30 YEARS

Frances B. Donahue, Superintendents Division; Eula H. Helton Laboratory Operations; and Lester D. Hayes, Materials Forming.

25 YEARS

Vernon C. Black, Merwyn Sanders, John W. Nelson, Billy B. Stone, Samuel A. Gibbs, Donald R. Deathridge, Clyde R. Sharp, Louis M. Fitzgerald, Hubert L. Wigginton, James H. Rowan and Ward E. Wampler Jr.

20 YEARS

Martin L. Crisp, Harold F. Wentworth and Buddy S. Dill.

ORGDP

30 YEARS

Lyle T. Hensley, Engineering Reproduction Department.

25 YEARS

Ralph B. Farrar, Andrew H. Fowler and Eldon D. Arnold.

20 YEARS

George H. Stakes.

PADUCAH

25 YEARS

James E. Prince, Everett L. Craycraft Jr., Allen W. Russell, Woodrow V. Leidigh, Jack G. Scott, Alfred N. Sherron and Edward P. Bloomfield.



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